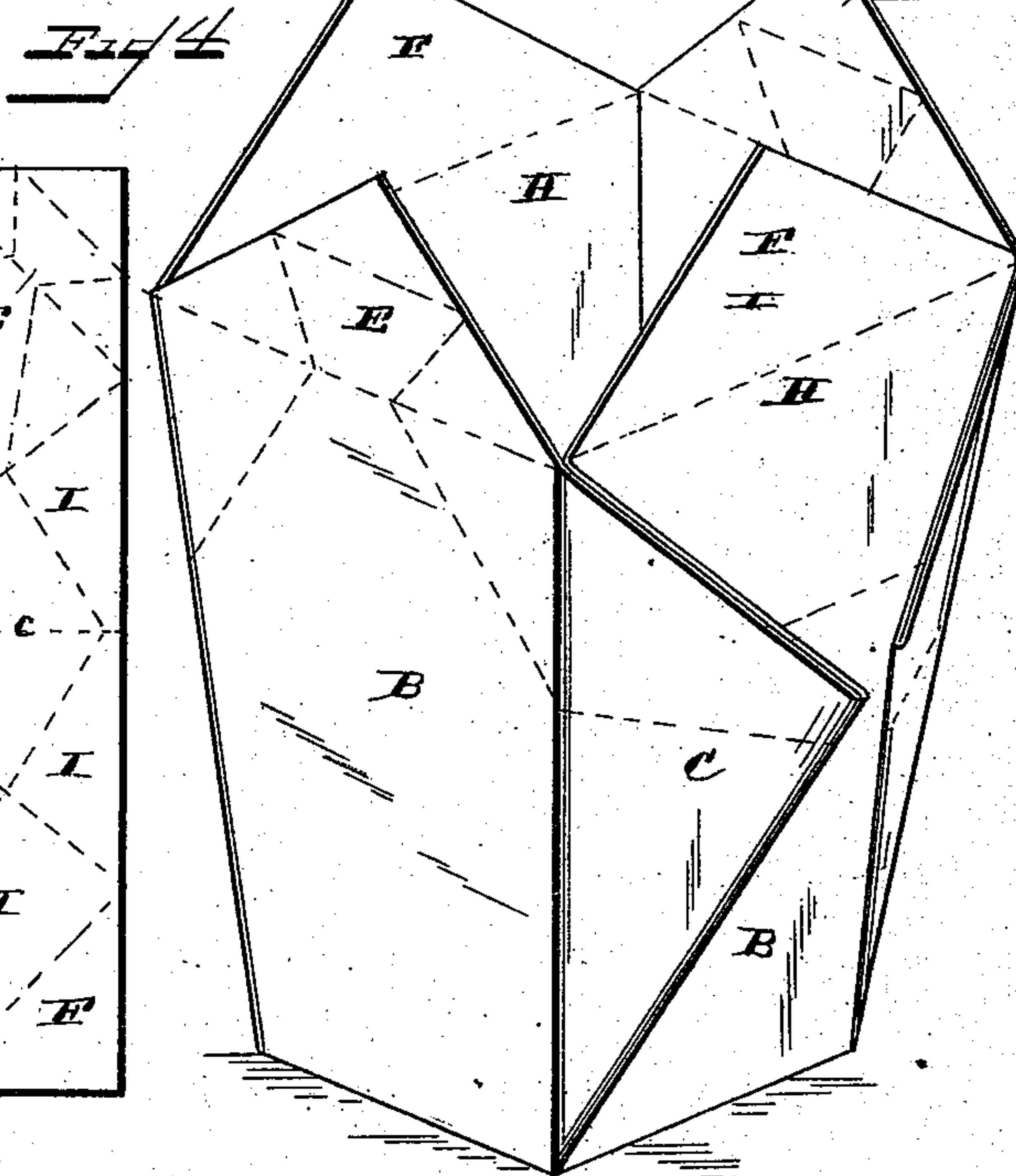
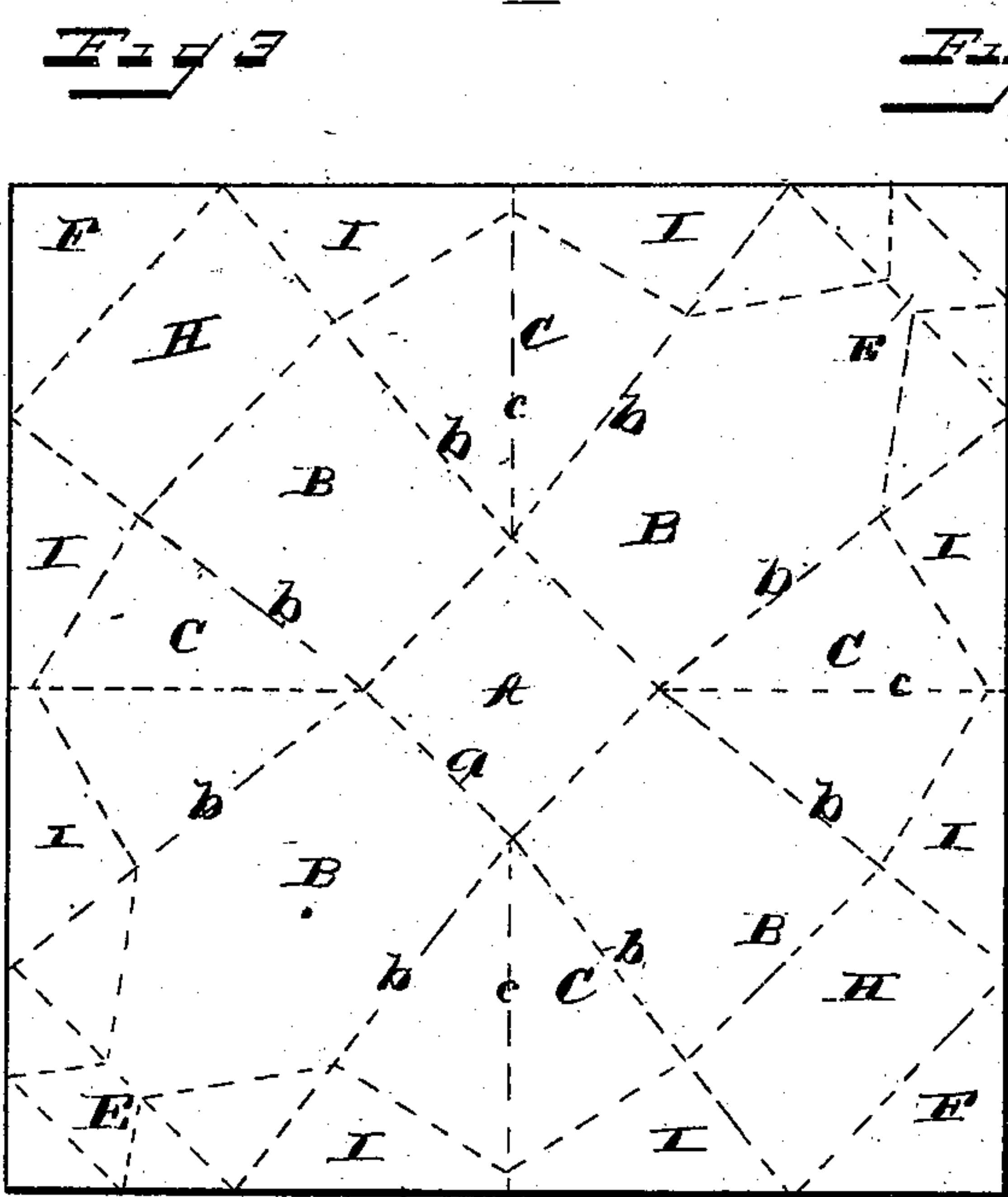
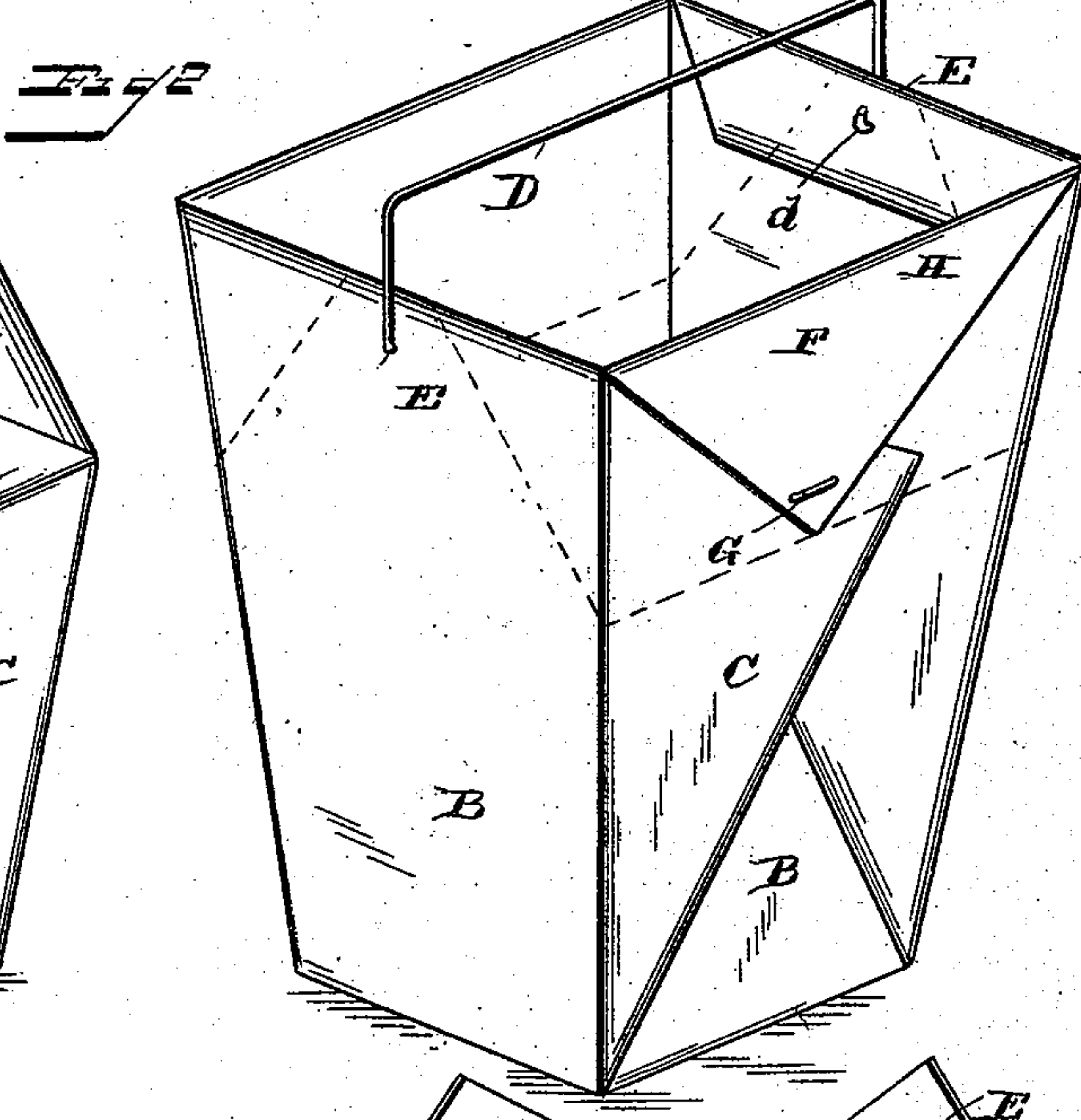
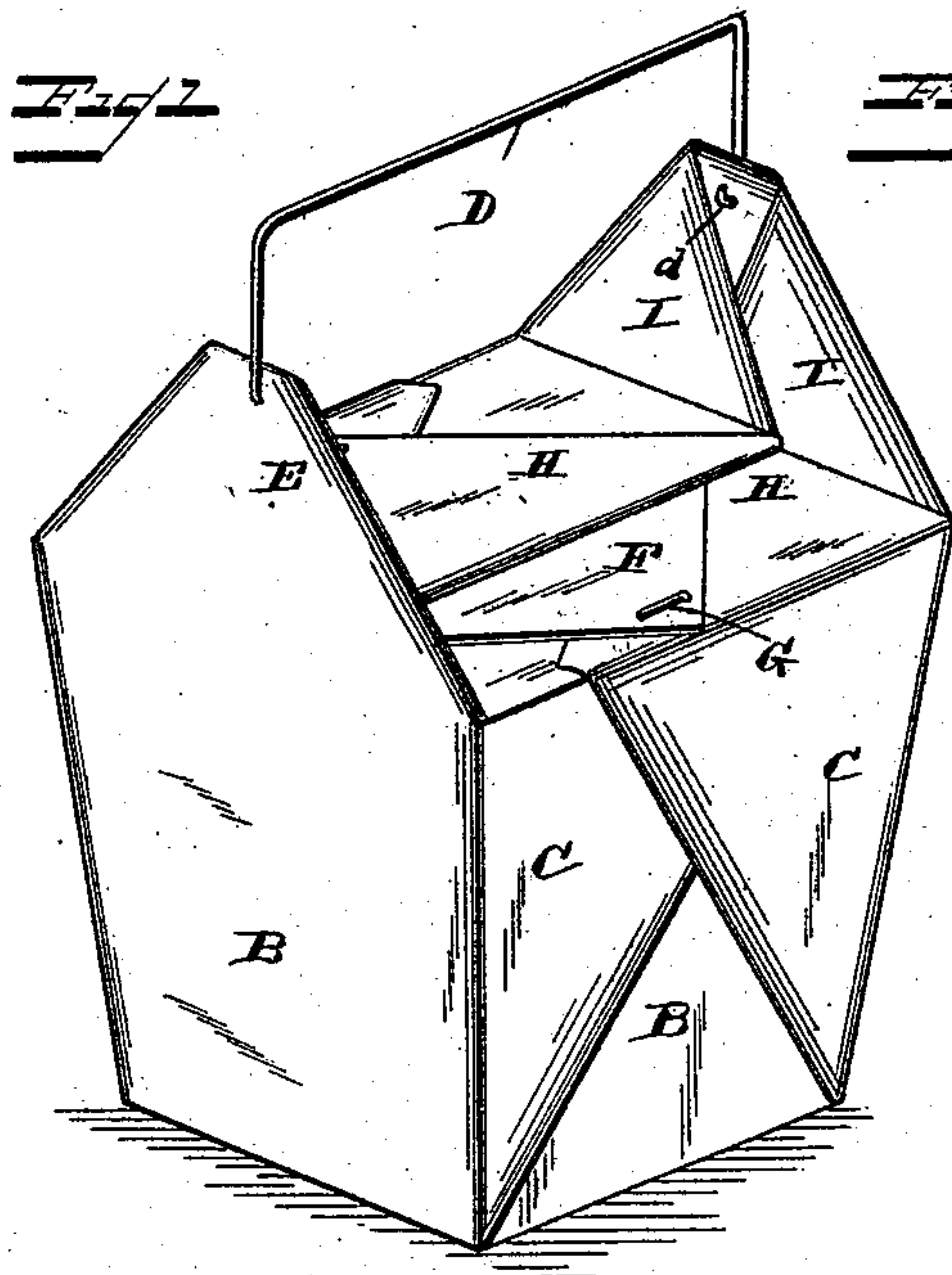


(No Model.)

S. E. BAKER.  
PAPER BOX OR PAIL.

No. 377,977.

Patented Feb. 14, 1888.



WITNESSES

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# UNITED STATES PATENT OFFICE.

STEWART E. BAKER, OF BINGHAMTON, NEW YORK.

## PAPER BOX OR PAIL.

SPECIFICATION forming part of Letters Patent No. 377,977, dated February 14, 1888.

Application filed November 21, 1887. Serial No. 255,775. (No model.)

*To all whom it may concern:*

Be it known that I, STEWART E. BAKER, a citizen of the United States, and a resident of Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Paper Boxes or Pails; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved paper box or pail complete, showing the box or pail closed. Fig. 2 is a similar view showing the box or pail open. Fig. 3 is a view of the blank forming the box or pail, the folds or creases upon which the blank is folded being indicated by dotted lines; and Fig. 4 is a perspective view of the blank partly folded at the stage immediately preceding the finishing of the box or pail.

The same letters of reference indicate corresponding parts in all the figures.

My invention has relation to boxes or pails made of paper and folded from one blank into their proper shape; and it consists in the improved construction and combination of parts of such a box or pail, as hereinafter more fully described and claimed.

The blank used for producing the box or pail is a perfectly square piece of suitably stiff and thick paper, and at the center of this blank a square bottom, A, is formed by creases *a*, the said square being preferably formed by folding or creasing the blank by means of suitable creasing-dies adapted for that purpose or over the edges of a mold or shaper having the outlines of the finished box. Four keystone-shaped sides, B, are now formed by side creases, *b*, having their narrower sides at the sides of the square bottom, and the triangular portions C between the side edges of the sides have creases *c* formed at right angles to their bases. When the triangular corner-flaps formed by folding the triangular portions upon their creases are doubled upon the outer or inner sides of the keystone-shaped sides, the box or pail of Fig. 4 is formed.

For the purpose of forming strong places of attachment for the bail D, forming the handle,

the triangular flaps E, which project at two opposite sides, are folded upon themselves to form a triple layer, and the bent and doubled or hook-shaped ends *d* of the bail are inserted through these folded flaps. The triangular flaps F of the two remaining sides are folded outward at their bases, and are secured to the upper portions of the doubled corner-flaps and to the sides by means of wire staples G, or other suitable fastenings; or they may be stitched along their edges to the said parts by a sewing-machine or by hand, so as to firmly secure the six thicknesses of paper forming the two sides.

It will now be seen that a square and downwardly-tapering box or pail is formed, having a bail for carrying it. This box or pail is covered by folding the two free sides of the box or pail over the top so that the inner edges overlap. The two cover portions H carry triangular portions I of the sides, holding the bail with them, so that the bail will appear secured in the tops of two triangular ears, thereby holding the cover portions in place without the aid of any separate locking or clamping mechanism.

The triangular side flaps may be doubled both upon the outside of the box or pail or they may be both doubled upon the inside of the box or pail, according to the character of the contents for which the box or pail is destined, the flaps being folded on the outside when it is desired to have a smooth inner side for holding partly fluid contents, while when the box or pail is to be used for solid contents, and it is desirable to have a smooth or ornamental exterior, the flaps may be folded upon the inside of the box or pail; or it may be filled to the top without using the cover portions, thus answering the purposes of a larger pail. It follows that the flaps may also be folded one upon the outside and one upon the inside, if it should be so desired.

By having the cover for the box or pail formed by the upper flaps of two sides being folded down over the top the cover is at all times ready to be closed, and the disadvantage in boxes or pails having a detached cover is avoided.

The entire box or pail may be made at a comparatively low cost, and will be very simple of construction and comparatively dura-



ble, and, being perfectly tight, it may be used for carrying fluids or semi-fluid articles when the material used in its construction is of sufficient strength and durability.

5 The wire bail or handle may be substituted by a strip of paper, a piece of string or tape, or any other suitable handle; but the wire bail will be the most desirable, as it serves as a fastener for the triple-folded flaps and as a  
10 transverse brace for the pail.

Wire staples, as shown in the drawings, are the most desirable fastening for the triangular flaps of the cover portions; but any other fastening may be employed without departing  
15 from the spirit of the invention.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

20 1. A paper box or pail consisting of a square bottom, keystone-shaped sides, doubled triangular corner-flaps doubled over the sides, cover portions at the tops of two sides, formed with the triangular upper flaps folded over upon them and folding over the top of the box or

pail, and triangular ears for a handle formed 25 by the three-ply triangular flaps of the two other sides, having their side portions doubled in, all constructed of a creased or folded blank, as shown and set forth.

2. A paper box or pail consisting of a square 30 bottom, keystone-shaped sides, doubled triangular corner-flaps doubled over the sides, cover portions at the tops of two sides, formed with the triangular upper flaps folded over and secured by fasteners and folding over the top 35 of the box or pail, triangular ears formed by three-ply triangular flaps at the tops of the two other sides, and a wire bail having its hook-shaped or doubled ends inserted through the said ears, all constructed of a creased or 40 folded blank, as shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

STEWART E. BAKER.

Witnesses:

JAMES W. MANIER,  
CHAS. H. WORDEN.